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MONTANA OIL AND GAS STATISTICAL BULLETIN

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OIL AND GAS CONSERVATION COMMISSION
SAVINGS BLDG.
HELENA, MONTANA

Vol. XVIII, No. 12 DECEMBER, 1970

Production of crude oil and condensate from the oil and gas areas of Montana for the month of December, 1970 averaged 101,136 barrels daily, a decrease of 370 barrels from the average November, 1970 production of 101,506.

The nine refineries in the state processed 122,878 barrels of crude oil daily for the month of December, 1970, an increase of 2,750 barrels from the 120,128 barrels processed daily during the month of November, 1970.

During December 33 wells were completed, 2 oil, 5 gas and 26 dry holes.

During December the commission issued 58 permits to drill new wells, an increase of 29 from the 29 permits issued during November.

SUMMARY OF CRUDE OIL PRODUCTION REFINING, STORAGE, ETC., IN MONTANA MONTH OF DECEMBER, 1970

IN STORAGE DECEMBER 1st	
By Producers	341,065
By Transporters	1,373,090
By Refiners	970,714
TOTAL STORAGE	2,684,869
Produced in Montana During Month	3,135,216
Imported During Month	3,046,041
TOTALS	8,866,126
DISPOSITION:	
Refined in Montana	3,809,245
Exported	2,196,490
Used for Fuel or Lost	20,588
TOTAL	6,026,323
IN STORAGE DECEMBER 31st	
By Producers	336,076
By Transporters	1,501,692
By Refiners	1,002,035
TOTAL STORAGE	2,839,803

NATURAL GAS WITHDRAWALS IN MONTANA

Month of December, 1970

Field	M. Cu. Ft.
Bell Creek	352,150
Big Coulee	148,307
Blackjack	94,580
Bowdoin	294,975
Bowes	18,077
Cabin Creek	109,161
Cedar Creek	1,169,727
Cut Bank (including Reagan)	630,923
Devon	0
Dry Creek	51,420
Elk Basin	83,380
Flat Coulee	15,474
Gold Butte	1,512
Grandview	42,511
Hardin	2,276
Keith Block	184,495
Kevin Sunburst	63,104
Lake Basin	91,802
Middle Butte	3,633
Mt. Lilly	39,914
Pine	50,270
Plevna	11,518
Squaw Coulee	91,402
Tiger Ridge	43,803
Utopia	67,613
Whitlash	153,666
Miscellaneous	279,670
TOTAL	4,095,381

Total Withdrawals for December 1969 were 4,098,773.

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PRODUCERS REPORT — MONTH OF DECEMBER, 1970

Leases	Field	No. of Wells	Storage 1st of Month	Oil Produced	Oil Shipped By Pipeline	Oil Shipped By Truck	Used or Lost	Storage End of Month
3	Ash Creek	3	29	2,081	—	2,082	—	28
1	Bainville	1	3,023	5,264	—	5,413	—	2,874
—	Bannatyne	—	573	—	—	—	—	573
—	Bascom	—	165	—	—	—	—	165
5	Bear's Den	7	1,545	902	—	104	—	2,343
52	Bell Creek	359	42,992	569,018	570,140	—	636	41,234
—	Benrund	—	120	—	—	—	—	120
2	Benrund East	2	1,936	14,106	14,885	—	—	1,157
1	Benrund Northeast	1	1,070	1,977	1,972	—	—	1,075
—	Berthelote	—	263	—	194	—	—	69
5	Big Wall	16	2,505	9,273	9,458	—	—	2,320
4	Blackfoot	5	1,310	1,700	1,929	—	—	1,081
5	Border	5	459	1,353	817	609	—	386
1	Bowes	52	6,277	13,158	11,331	—	—	8,104
1	Bradley	1	597	570	833	—	—	334
2	Brady	2	324	425	389	—	—	360
4	Brorson-Madison	4	1,086	3,458	—	2,222	—	2,322
6	Brorson-Red River	6	4,927	14,794	—	14,163	—	5,558
3	Brorson-Red River South	3	1,209	6,257	—	6,469	—	997
5	Brush Lake	5	728	30,885	29,391	—	—	2,222
2	Cabin Creek	98	—	326,260	326,260	—	—	—
1	Canal	1	1,052	16,649	—	16,455	—	1,246
11	Cat Creek	58	3,633	14,306	14,113	1,343	—	2,483
—	Clark's Fork	—	56	—	—	—	—	56
1	Clark's Fork South	1	76	2,058	—	1,924	—	210
4	Conrad South	4	173	1,212	1,212	—	—	173
2	Cow Creek	2	124	3,181	—	2,942	—	363
1	Culbertson	1	263	2,285	—	1,846	—	702
2	Cupton	2	1,861	1,994	—	2,055	—	1,800
151	Cut Bank	875	58,669	485,801	489,162	—	871	54,437
—	Dean Dome	—	65	—	—	—	—	65
2	Deer Creek	2	734	1,948	2,228	—	—	454
1	Delphia	1	273	437	—	200	—	510
—	Devil's Basin	—	671	—	—	—	—	671
2	Dwyer	14	4,207	26,137	26,481	—	—	3,863
3	Elk Basin	49	1,037	167,861	168,063	—	—	835
5	Elk Basin Northwest	9	8,994	8,995	9,261	—	—	8,728
5	Fairview	9	10,136	48,396	11,495	37,605	—	9,432
2	Fertile Prairie	2	961	1,427	—	1,764	—	624
9	Flat Coulee	27	4,761	9,022	8,056	—	—	5,727
46	Flat Lake	65	6,124	66,833	67,482	—	—	5,475
3	Flat Lake South	3	1,041	4,241	4,349	—	—	933
1	Ft. Gilbert	1	684	28,039	—	27,155	—	1,568
1	Frannie	1	—	1,860	1,860	—	—	—
14	Fred & George Creek	38	1,902	31,914	31,888	—	—	1,928
—	Gage	—	31	—	—	—	—	31
3	Gas City	17	4,262	27,720	21,226	3,961	—	6,795
2	Girard	2	820	6,951	—	6,164	—	1,607
11	Glendive	15	2,896	27,872	27,282	—	—	3,486
26	Goose Lake	34	7,120	41,647	42,970	—	—	5,797
9	Graben Coulee	17	5,700	3,616	2,524	2,826	—	3,966
2	Gypsy Basin	2	—	793	793	—	—	—
2	Hay Creek	2	379	9,869	9,385	—	—	863
6	Hiawatha	6	2,730	8,642	8,327	—	—	3,045
1	Hibbard	1	448	142	—	—	—	590
1	Injun Creek	1	930	418	—	614	—	734
6	Ivanhoe	12	3,168	6,094	6,845	—	—	2,417
1	Jim Coulee	1	—	168	—	—	—	168
7	Keg Coulee	19	3,960	15,765	14,899	—	—	4,826
2	Keg Coulee North	2	543	661	436	—	—	768
1	Kelley	5	651	4,078	4,078	—	—	651
72	Kevin Sunburst	359	9,319	23,692	22,551	1,938	452	8,070
8	Laird Creek	10	611	4,522	—	3,987	—	1,146
2	Leary	2	1,392	938	—	650	—	1,680
1	Little Beaver	23	—	29,465	29,465	—	—	—
2	Little Beaver East *	13	2,671	14,533	15,745	—	—	1,459
1	Little Wall Creek	1	—	6,837	5,931	—	—	906
2	Lodge Grass	2	1,736	943	—	1,709	—	970
3	Lookout Butte (Coral Creek)	31	1,095	72,802	73,191	—	—	706
—	Mackay Dome	—	1,134	—	—	—	—	1,134
2	Mason Lake	2	640	765	986	—	—	419
3	Melstone	4	1,103	1,988	1,825	—	—	1,266
1	Mineral Bench	1	549	1,085	891	—	—	743
1	Miner's Coulee	1	107	253	—	253	—	107
11	Monarch	14	3,612	17,846	13,001	4,765	—	3,692
2	Mosser	2	—	373	373	—	—	—
2	Otis Creek	2	1,044	5,597	—	5,395	—	1,246
6	Outlook	9	6,069	15,162	13,131	—	—	8,100
1	Outlook South	1	774	1,318	893	—	—	1,199
2	Outlook West	2	818	3,180	2,683	—	—	1,315
1	Pennel-Lookout Butte	112	—	138,732	138,732	—	—	—
4	Pine	112	17,483	267,416	267,559	—	—	17,340
—	Pole Creek	—	78	318	—	328	—	68
67	Pondera	278	7,157	25,903	26,024	—	—	7,036
7	Poplar	66	11,179	58,152	61,779	—	31	7,521
3	Poplar Northwest	3	1,573	1,600	2,026	—	—	1,147
1	Prairie Elk	1	346	500	500	—	—	346
3	Pritchard Creek	3	167	1,408	1,408	—	—	167
4	Ragged Point	12	2,769	6,610	7,259	—	—	2,120
2	Rattlesnake Coulee	2	431	545	—	—	—	976
2	Reagan	47	545	20,376	20,535	—	—	386
1	Red Creek	21	—	16,855	16,646	209	—	—
1	Red Fox	1	151	865	925	—	—	91
1	Redstone	1	345	3,214	2,990	—	—	569
1	Repeat	1	280	1,730	—	1,790	—	220
5	Reserve	5	—	9,613	9,613	—	—	—
1	Richey	1	135	555	441	—	—	249
1	Richey Southwest	6	201	3,370	—	3,557	—	14
—	Rough Creek	—	266	—	—	—	—	266
1	Rush Mountain	1	505	3,152	3,027	—	—	630
1	Salt Lake	1	511	1,252	—	1,474	—	289
6	Sand Creek	9	3,885	7,143	8,246	—	—	2,782
—	Shotgun Creek	—	314	—	—	299	—	15
1	Sidney	1	300	185	—	185	50	250
1	Snyder	4	734	683	—	899	—	518
6	Soap Creek	16	2,824	8,035	—	7,459	—	3,400
1	Spring Lake	2	1,963	2,580	—	2,728	—	1,815
1	Stensvad	5	4,558	30,683	32,282	—	—	2,959
11	Sumatra	77	9,512	54,429	55,336	—	—	8,605
5	Tule Creek	6	3,327	31,632	—	31,976	—	2,983
2	Tule Creek East	2	904	9,132	—	8,955	—	1,081
2	Tule Creek South	3	839	3,433	—	2,650	—	1,622
2	Vida	2	381	1,337	—	897	—	821
4	Volt	4	2,252	12,864	12,084	—	—	3,032
2	Weed Creek	3	399	2,991	3,071	—	2	317
3	Weldon	7	1,174	21,337	20,449	—	—	2,062
1	West Butte	1	—	2,681	—	2,681	—	—
16	Whitlash	42	8,512	12,622	14,676	—	—	6,458
1	Whitlash West	1	386	255	208	—	—	433
3	Willow Creek North	3	1,589	7,588	7,815	—	—	1,362
2	Wills Creek South	2	—	2,148	2,148	—	—	—
6	Wolf Springs	8	2,622	4,500	4,500	—	—	2,622
2	Woodrow	2	158	2,263	2,255	—	—	166
3	Wright Creek	5	1,497	3,098	2,451	—	—	2,144
1	Wildcat, Blaine Cty	1	351	53	—	—	—	404
—	Wildcat, Carbon Cty	—	310	—	—	—	—	310
1	Wildcat, Daniels Cty	1	29	1,686	—	1,541	—	174
1	Wildcat, Fallon Cty	1	435	10,752	—	10,137	—	1,050
2	Wildcat, Glacier Cty	2	1,400	953	1,568	—	—	785
1	Wildcat, Liberty Cty	2	239	60	—	—	—	299
5	Wildcat, Richland Cty	5	1,102	49,787	—	49,280	—	1,609
1	Wildcat, Roosevelt Cty	1	—	5,913	—	4,857	—	1,056
1	Wildcat, Toole Cty	1	—	415	—	415	—	—
772	Total	3,243	341,065	3,135,216	2,849,233	288,930	2,042	336,076

Total Oil Produced & Shipped From Leases

	Bbls. Produced	Daily Average	Bbls. Shipped	Daily Average
Year, 1969	43,954,112	120,422	44,000,549	120,549
1st Quarter, 1970	9,744,920	108,306	9,724,779	108,062
2nd Quarter, 1970	9,446,320	103,806	9,422,315	103,542
3rd Quarter, 1970	9,339,576	101,517	9,120,597	99,137
October, 1970	3,167,479	102,177	3,175,297	102,429
November, 1970	3,045,186	101,506	3,023,442	100,781
December, 1970	3,135,216	101,136	3,138,163	101,231

Oil In Storage

	In Producers Field Tank	In Transporters Storage	In Refiners Storage‡	Total Oil In Storage‡
December, 1969	351,210	1,237,355	731,177	2,319,742
March, 1970	362,487	1,382,147	387,559	2,132,193
June, 1970	374,566	1,704,027	1,084,703	3,163,296
September, 1970	334,184	1,244,899	808,007	2,387,090
October, 1970	323,301	1,259,338	832,811	2,415,450
November, 1970	341,065	1,373,090	970,714	2,684,869
December, 1970	336,076	1,501,692	1,002,035	2,839,803

*Montana Oil Only. ‡Includes Wyoming Oil.

TRANSPORTERS REPORT — MONTH OF DECEMBER, 1970

	Storage First of Month	OIL RECEIVED BY			Loss or (Gain)	OIL SHIPPED TO			Storage End of Month
		Pipeline	Truck	Connecting Carrier		Montana	Other States	Connecting Carrier	
ASH CREEK—Truck			2,082				2,082		
BAINVILLE—									
Rock Island Oil & Ref. Co.			5,413				5,413		
BEAR'S DEN—Truck			104				104		
BELL CREEK—Pipeline	66,810	570,140					560,508	13,884	62,558
BIG WALL—									
Continental Pipeline Co.		9,458				9,458			
BLACKFOOT—									
Camerland Cardinal Corp.		1,929						1,929	
BORDER—Permian Corp.			609					609	
BOWES—Texaco Inc.		11,331				11,331			
BRORSON-MADISON, BRORSON-RED RIVER & BRORSON-RED RIVER SOUTH—									
Rock Island Oil & Ref. Co.			22,854					22,854	
BRUSH LAKE—Portal Pipeline Co.		29,391					29,391		
CABIN CREEK & OTHERS—*									
Butte Pipeline Co.	339,514	1,024,722	20,146	517,084	250		1,571,814		329,402
Shell Pipeline Co.	2,960	285,334			340			284,637	3,317
	342,474	1,310,056	20,146	517,084	590		1,571,814	284,637	332,719
CANAL—Rock Island Oil & Ref. Co.			16,455				16,455		
CAT CREEK—									
Continental Pipeline Co.		14,113				14,113			
Truck			1,343			1,343			
		14,113	1,343			15,456			
CLARK'S FORK SOUTH—									
Permian Corp.			1,924				1,924		
COW CREEK—West. Crude Oil Corp.			2,942				2,942		
CULBERTSON—Spruce Oil Co.			1,846				1,846		
CUT BANK—									
Continental Pipeline Co.			10,328	476,368				486,696	
Phillips Petroleum Co.	98,981	179,355		17,337	2,616	156,411		28,019	108,627
Texas Pipeline Co.	11,445	64,422		88,560	(409)	149,592			15,244
Union Oil Co.	65,556	67,713			125	65,238			67,906
Western Oil Trans. Co.		81,242						81,242	
Western Oil Trans. Co. (Moulton)		101,088						101,088	
	175,982	493,820	10,328	582,265	2,332	371,241		697,045	191,777
DELPHIA—Truck			200			200			
DWYER—Portal Pipeline Co.		26,481					26,481		
ELK BASIN & ELK BASIN NORTHWEST—									
Marathon Pipeline Co.		176,555				176,555			
FAIRVIEW—Fairview Pipeline Co.		13,318					13,318		
Rock Island Oil & Ref. Co.			37,605				37,605		
		13,318	37,605				50,923		
FLAT COULEE—									
Camerland Cardinal Corp.		7,342				7,342			
FLAT LAKE & FLAT LAKE SOUTH—Portal Pipeline Co.		65,227					65,227		
FRANNIE—Interstate Pipeline Co.		1,860					1,860		
FT. GILBERT—Truck			27,155				27,155		
FRED & GEORGE CREEK—									
Camerland Cardinal Corp.	14,679	34,793				27,120		7,763	14,589
GIRARD—Rock Island Oil & Ref. Co			6,164				6,164		
GLENDIVE, DEER CREEK, WOODROW & SAND CREEK—									
Texas Pipeline Co.	10,221	31,368			(18)			30,865	10,742
GOOSE LAKE—									
Portal Pipeline Co.		38,450					38,450		
HAY CREEK—									
Fairview Pipeline Co.		9,385					9,385		
HIAWATHA—									
Continental Pipeline Co.		8,303					8,303		
INJUN CREEK—Permian Corp.			614			6,415	430		
IVANHOE—									
Continental Pipeline Co.		6,845					614		
KEG COULEE & KEG COULEE NORTH—									
Continental Pipeline Co.		15,833				15,333			
KELLEY—									
Continental Pipeline Co.		4,078				4,078			
KEVIN SUNBURST—									
Big West Oil Co.	6,060	11,420				9,024			8,456
Homestake Oil & Gas Co.	4,862	1,704			795	1,685			4,086
Texas Pipeline Co.	6,989	10,438			(174)			10,613	6,988
	17,911	23,562			621	10,709		10,613	19,530
LEARY—Permian Corp.			650				650		
LITTLE WALL CREEK—									
Continental Pipeline Co.		5,931					5,931		
LODGE GRASS—Permian Corp.			1,709			1,709			
MASON LAKE—									
Continental Pipeline Co.		986				986			
MELSTONE—									
Continental Pipeline Co.		1,825				1,825			
MOSSER—Truck		373					373		
OTIS CREEK—Truck			5,395				16,707		
OUTLOOK, OUTLOOK SOUTH & OUTLOOK WEST—									
Portal Pipeline Co.		16,707					5,395		
POLE CREEK—Truck			328				328		
PONDERA—Phillips Petr. Co.	11,971	28,233		39,685	462	26,263			53,164
POPLAR, BENRUD, BENRUD EAST, RED FOX, REDSTONE, RICHEY, TULE CREEK, TULE CREEK SOUTH AND VOLT—									
East Poplar Gathering System	8,093	92,328			351			82,353‡	17,717
RAGGED POINT—									
Continental Pipeline Co.		6,761				6,761			
RED CREEK—									
Western Oil Transportation Co.		19,099	209					19,308	
RESERVE—Portal Pipeline Co.		8,999					8,999		
RUSH MOUNTAIN—									
Sinclair Refining Co.		3,027					3,027		
SALT LAKE—									
Rock Island Oil & Ref. Co.			1,474				1,474		
SHOTGUN CREEK—Truck			299				299		
SIDNEY—Truck			185					185	
SNYDER—Permian Corp.			899			899			
SOAP CREEK—Permian Corp.			7,459				7,459		
SPRING LAKE—									
Rock Island Oil. & Ref. Co.			2,728				2,728		
SUMATRA & STENSVAD—									
Continental Pipeline Co.	723,087	87,919		2,206,214	12,613	76,668		2,133,890	794,049
TULE CREEK—									
Permian Corp.			3,087			3,087			
Spruce Oil Corp.	1,862		40,494			37,509			4,847
	1,862		43,581			40,596			4,847
WEED CREEK—									
Continental Pipeline Co.		3,071				3,071			
WHITLASH & WHITLASH WEST—									
Camerland Cardinal Corp.		16,022				16,022			
WILLOW CREEK NORTH—									
Continental Pipeline Co.		7,815						7,815	
WOLF SPRINGS—									
Continental Pipeline Co.		4,500				4,500			
WILDCAT WELLS—Truck			66,230				66,230		
TOTALS	1,373,090	3,207,234	288,930	3,345,248	16,951	835,038	2,547,071	3,313,750	1,501,692

*Cabin Creek, Cupton, Fertile Prairie, Gas City, Little Beaver, Little Beaver East, Lookout Butte, Monarch, Pennel, Pine, Repeat, Richey, Richey Southwest, Weldon & Wills Creek South.

‡Transferred to Butte Pipeline Company.

BARRELS OF CRUDE OIL REFINED IN MONTANA
MONTH OF DECEMBER, 1970

Field	Big West Oil Co	Continental Oil Co.	Diamond Asphalt Co.	Farmers Union	Humble Oil & Ref. Co.	Jet Fuel Refinery	Phillips Petr. Co.	Spruce Oil Co.	Union Oil Co.	Total
Big West	.....	9,458	.....	.....	.....	.....	.....	.....	.....	9,458
Cat Creek	.....	3,342	.....	5,143	.....	4,989	.....	.....	.....	13,474
Cut Bank	77,600	.....	.....	.....	.....	.....	113,640	.....	115,000	306,240
Delphia	.....	.....	.....	.....	.....	839	.....	.....	.....	839
Elk Basin	.....	69,639	.....	45,542	61,374	.....	.....	.....	.....	176,555
Flat Coulee	.....	.....	.....	.....	.....	.....	.....	.....	7,342	7,342
Fred & George Creek	27,120	.....	.....	.....	.....	.....	.....	.....	.....	27,120
Gage & Gage Southwest	.....	.....	.....	.....	.....	232	.....	.....	.....	232
Hibbard	.....	.....	.....	.....	.....	496	.....	.....	.....	496
Ivanhoe	.....	6,415	.....	.....	.....	.....	.....	.....	.....	6,415
Keg Coulee	.....	3,331	.....	11,536	.....	.....	.....	.....	.....	14,867
Kelley	.....	.....	.....	.....	4,078	.....	.....	.....	.....	4,078
Kevin Sunburst	10,709	.....	.....	.....	.....	.....	.....	.....	.....	10,709
Lodge Grass	.....	1,709	.....	.....	.....	.....	.....	.....	.....	1,709
Mason Lake	.....	986	.....	.....	.....	.....	.....	.....	.....	986
Melstone	.....	.....	.....	1,825	.....	.....	.....	.....	.....	1,825
Pondera	.....	.....	.....	.....	.....	.....	19,076	.....	.....	19,076
Ragged Point	.....	.....	.....	6,761	.....	.....	.....	.....	.....	6,761
Sand Creek	.....	.....	.....	.....	.....	178	.....	.....	.....	178
Snyder	.....	899	.....	.....	.....	.....	.....	.....	.....	899
Sumatra & Stensvad	.....	10,578	.....	33,808	20,746	.....	.....	.....	.....	65,132
Tule Creek	.....	.....	.....	.....	.....	.....	.....	73,539	.....	73,539
Weed Creek	.....	.....	.....	.....	3,071	.....	.....	.....	.....	3,071
Whitlash	.....	.....	.....	.....	.....	.....	7,703	.....	.....	7,703
Wolf Springs	.....	.....	.....	.....	4,500	.....	.....	.....	.....	4,500
Total Montana Oil	115,429	106,357	.....	104,615	93,769	6,734	140,419	73,539	122,342	763,204
Canadian Oil Imported	.....	465,597	.....	370,465	365,696	.....	.....	.....	.....	1,201,758
Wyoming Oil Imported	.....	761,755	.....	271,572	810,956	.....	.....	.....	.....	1,844,283
Total Montana, Canadian, and Wyoming Oil	115,429	1,333,709	.....	746,652	1,270,421	6,734	140,419	73,539	122,342	3,809,245

AVERAGE BARRELS PER DAY

	Montana	Canada	Wyoming	Total
Year, 1969	25,966	13,237	71,981	111,184
December, 1969	24,074	13,618	78,049	115,741
December, 1970	24,619	38,766	59,493	122,878

PERCENTAGE OF CRDUE OIL REFINED

	Montana	Canada	Wyoming
Year, 1969	23.35%	11.91%	64.74%
December, 1969	20.80%	11.77%	67.43%
December, 1970	20.04%	31.55%	48.41%